

Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No.: 378938

V005.0 Revision: 05.12.2016

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Replaces version from: 21.10.2013

Loctite EA 3450 B HF

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Loctite EA 3450 B HF

Contains:

3,3'-Oxybis(ethyleneoxy)bis(propylamine)

N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Epoxy Hardener

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



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Signal word: Danger

Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statement:

Prevention

P280 Wear protective gloves.

Precautionary statement:

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Part B of a two part adhesive

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	224-207-2 01-2119963377-26	1-< 5 %	Skin Corr. 1B H314 Skin Sens. 1 H317
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine 10563-29-8	234-148-4 01-2119970376-29	1-< 3 %	Acute Tox. 4; Oral H302 Skin Corr. 1A H314 Skin Sens. 1B H317
2-Ethylhexanoic acid 149-57-5	205-743-6 01-2119488942-23	0,1-< 1 %	Repr. 2 H361d

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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4.2. Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

SKIN: Redness, inflammation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

Fine water spray

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Never allow product to get in contact with water during storage

7.3. Specific end use(s)

Epoxy Hardener

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Barium sulfate 7727-43-7 [BARIUM SULPHATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Barium sulfate 7727-43-7 [BARIUM SULPHATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Barium sulfate 7727-43-7 [BARIUM SULPHATE, RESPIRABLE DUST]		2	Time Weighted Average (TWA):		IR_OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		IR_OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE DUST]		10	Time Weighted Average (TWA):		IR_OEL
2-Ethylhexanoic acid 149-57-5 IETHYL HEXANOIC ACID		5	Time Weighted Average (TWA):		IR_OEL

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$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	•	periou	mg/l	ppm	mg/kg	others	
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	aqua		Ŭ	••		0,22 mg/L	
4246-51-9	(freshwater)						
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	aqua (marine					0,022 mg/L	
4246-51-9	water)						
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	aqua					2,2 mg/L	
4246-51-9	(intermittent releases)						
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	sewage					125 mg/L	
4246-51-9	treatment plant					123 Hig/L	
4240 31 7	(STP)						
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	sediment				1,1 mg/kg		
4246-51-9	(freshwater)				, 88		
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	sediment				0,11 mg/kg		
4246-51-9	(marine water)						
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	soil				0,091		
4246-51-9					mg/kg		
N'-(3-Aminopropyl)-N,N-dimethylpropane-	aqua					9,2 μg/L	
1,3-diamine	(freshwater)						
10563-29-8						0.02 /	
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine	aqua (marine water)					0,92 μg/L	
1,3-diamine 10563-29-8	water)						
N'-(3-Aminopropyl)-N,N-dimethylpropane-	aqua					92 μg/L	
1.3-diamine	(intermittent)2 μg/L	
10563-29-8	releases)						
N'-(3-Aminopropyl)-N,N-dimethylpropane-	Sewage					18,1 mg/L	
1,3-diamine	treatment plant						
10563-29-8							
N'-(3-Aminopropyl)-N,N-dimethylpropane-	sediment				0,0336		
1,3-diamine	(freshwater)				mg/kg		
10563-29-8	11				0.00226		
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine	sediment (marine water)				0,00336		
10563-29-8	(marme water)				mg/kg		
N'-(3-Aminopropyl)-N,N-dimethylpropane-	soil				0,00132		
1,3-diamine	5011				mg/kg		
10563-29-8					8 8		
2-Ethylhexanoic acid	aqua					0,36 mg/L	
149-57-5	(freshwater)						
2-Ethylhexanoic acid	aqua (marine					0,036 mg/L	
149-57-5	water)						
2-Ethylhexanoic acid	aqua					0,493 mg/L	
149-57-5	(intermittent						
2-Ethylhexanoic acid	releases) sewage					71,7 mg/L	
2-Ethylhexanoic acid 149-57-5	treatment plant					/1,/ IIIg/L	
	(STP)						
2-Ethylhexanoic acid	sediment				6,37 mg/kg	1	
149-57-5	(freshwater)				3,55		
2-Ethylhexanoic acid	sediment				0,637		
149-57-5	(marine water)				mg/kg		
2-Ethylhexanoic acid	soil				1,06 mg/kg		
149-57-5							

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Workers	inhalation	Long term exposure - systemic effects		59 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Workers	inhalation	Acute/short term exposure - systemic effects		176 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Workers	inhalation	Long term exposure - local effects		13 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Workers	dermal	Long term exposure - systemic effects		8,3 mg/kg bw/day	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	inhalation	Long term exposure - systemic effects		17 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	inhalation	Acute/short term exposure - systemic effects		52 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	inhalation	Long term exposure - local effects		0,5 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	inhalation	Acute/short term exposure - local effects		6,5 mg/m3	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	dermal	Long term exposure - systemic effects		5 mg/kg bw/day	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	General population	oral	Long term exposure - systemic effects		5 mg/kg bw/day	
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine 10563-29-8	Workers	inhalation	Long term exposure - systemic effects		0,35 mg/m3	
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine 10563-29-8	Workers	dermal	Long term exposure - systemic effects		0,05 mg/kg	
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine 10563-29-8	General population	inhalation	Long term exposure - systemic effects		0,65 mg/m3	
N'-(3-Aminopropyl)-N,N-dimethylpropane- 1,3-diamine 10563-29-8	General population	oral	Long term exposure - systemic effects		0,2 mg/kg	
2-Ethylhexanoic acid 149-57-5	Workers	dermal	Long term exposure - systemic effects		12 mg/kg bw/day	
2-Ethylhexanoic acid 149-57-5	Workers	Inhalation	Long term exposure - systemic effects		32 mg/m3	
2-Ethylhexanoic acid 149-57-5	General population	dermal	Long term exposure - systemic effects		6 mg/kg bw/day	
2-Ethylhexanoic acid 149-57-5	General population	Inhalation	Long term exposure - systemic effects		8 mg/m3	
2-Ethylhexanoic acid 149-57-5	General population	oral	Long term exposure - systemic effects		2,5 mg/kg bw/day	

Biological Exposure Indices: None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

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Respiratory protection:

Use only in well-ventilated areas.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly

ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid

liquid white

Odor characteristic

Odour threshold No data available / Not applicable

pH Not available. Initial boiling point > 180 °C (> 356 °F)

Flash point > 93 °C (> 199.4 °F); no method Decomposition temperature No data available / Not applicable

Vapour pressure < 700 mbar(50 °C (122 °F))

Density 1,75 g/cm3

Bulk density

No data available / Not applicable
Viscosity

No data available / Not applicable
Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable

Solubility (qualitative) Not soluble

(Solvent: Water)

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Solidification temperature

Melting point

No data available / Not applicable
Auto-ignition temperature

No data available / Not applicable
Explosive limits

No data available / Not applicable
Partition coefficient: n-octanol/water

No data available / Not applicable
Evaporation rate

No data available / Not applicable

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Vapor density Oxidising properties No data available / Not applicable No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Strong oxidizing agents.

Polymerises in presence of water.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

May cause irritation to respiratory system.

Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye damage.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
3,3'-	LD50	3.160 mg/kg	oral		rat	OECD Guideline 401 (Acute
Oxybis(ethyleneoxy)bis(p						Oral Toxicity)
ropylamine)						-
4246-51-9						
N'-(3-Aminopropyl)-N,N-	LD50	1.669 mg/kg	oral		rat	OECD Guideline 401 (Acute
dimethylpropane-1,3-						Oral Toxicity)
diamine						-
10563-29-8						
2-Ethylhexanoic acid	LD50	3.640 mg/kg	oral		rat	BASF Test
149-57-5						

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Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
3,3'-	Acute	2.500 mg/kg	dermal			Expert judgement
Oxybis(ethyleneoxy)bis(p	toxicity					
ropylamine)	estimate					
4246-51-9	(ATE)					
3,3'-	LD50	> 2.150 mg/kg			rat	OECD Guideline 402 (Acute
Oxybis(ethyleneoxy)bis(p						Dermal Toxicity)
ropylamine)						
4246-51-9						
2-Ethylhexanoic acid	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
149-57-5						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
3,3'-	corrosive		rabbit	OECD Guideline 404 (Acute
Oxybis(ethyleneoxy)bis(p				Dermal Irritation / Corrosion)
ropylamine)				
4246-51-9				
2-Ethylhexanoic acid	not irritating		rabbit	OECD Guideline 404 (Acute
149-57-5				Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Ethylhexanoic acid 149-57-5	not irritating		rabbit	OECD Guideline 405 (Acute Eve Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
3,3'-	negative	in vitro mammalian	with and without		OECD Guideline 487 (In vitro
Oxybis(ethyleneoxy)bis(p		cell micronucleus			Mammalian Cell
ropylamine)		test			Micronucleus Test)
4246-51-9					
	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
	negative	bacterial reverse	with and without		OECD Guideline 471
		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
2-Ethylhexanoic acid	negative	bacterial reverse	with and without		Ames Test
149-57-5	_	mutation assay (e.g			
		Ames test)			

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Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
3,3'- Oxybis(ethyleneoxy)bis(p ropylamine) 4246-51-9	NOAEL P = 600 mg/kg	screening oral: gavage		rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)

Repeated dose toxicity

Hazardous components CAS-No.	Result		Route of application	Exposure time / Frequency of treatment	Species	Method
3,3'-	NOAEL=<	100	oral: gavage	59 daysdaily	rat	OECD Guideline 422
Oxybis(ethyleneoxy)bis(p	mg/kg					(Combined Repeated Dose
ropylamine)						Toxicity Study with the
4246-51-9						Reproduction / Developmental
						Toxicity Screening Test)

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

Do not empty into drains / surface water / ground water.

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Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
3,3'- Oxybis(ethyleneoxy)bis(propy lamine) 4246-51-9	LC50	> 215 - 464 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
3,3'- Oxybis(ethyleneoxy)bis(propy lamine) 4246-51-9	EC50	218 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
3,3'- Oxybis(ethyleneoxy)bis(propy lamine) 4246-51-9	EC50	666 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
4240-31-7	NOEC	15,6 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
3,3'- Oxybis(ethyleneoxy)bis(propy lamine) 4246-51-9	EC10	152,5 mg/l	Bacteria	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine 10563-29-8	EC50	9,2 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Ethylhexanoic acid 149-57-5	LC50	270 mg/l	Fish	96 h	Lepomis gibbosus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Ethylhexanoic acid 149-57-5	EC50	85,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Ethylhexanoic acid 149-57-5	EC50	61 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	33 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Ethylhexanoic acid 149-57-5	EC10	72 mg/l	Bacteria	17 h	suospicatus)	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

12.2. Persistence and degradability

Persistence and Biodegradability:

No data available for the product.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
3,3'- Oxybis(ethyleneoxy)bis(propy lamine) 4246-51-9	not inherently biodegradable	aerobic	< 20 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
	Not readily biodegradable.	aerobic	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine 10563-29-8	readily biodegradable		100 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
2-Ethylhexanoic acid 149-57-5		aerobic	> 70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
	readily biodegradable	aerobic	99 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil $\,$

Mobility:

Cured adhesives are immobile.

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Bioaccumulative potential:

No data available for the product.

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
3,3'-	-1,25				25 °C	OECD Guideline 107
Oxybis(ethyleneoxy)bis(propy						(Partition Coefficient (n-
lamine)						octanol / water), Shake
4246-51-9						Flask Method)
N'-(3-Aminopropyl)-N,N-	-0,47				25 °C	other (calculated)
dimethylpropane-1,3-diamine						
10563-29-8						
2-Ethylhexanoic acid	2,7					OECD Guideline 107
149-57-5						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
4246-51-9	Bioaccumulative (vPvB) criteria.
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
diamine	Bioaccumulative (vPvB) criteria.
10563-29-8	
2-Ethylhexanoic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
149-57-5	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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14.2.

SECTION 14: Transport information

14.1. UN number

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
IATA 3334

UN proper shipping name

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA Aviation regulated liquid, n.o.s. (Polymercaptan)

14.3. Transport hazard class(es)

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA 9

14.4. Packing group

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA III

14.5. Environmental hazards

ADR not applicable
RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

14.6. Special precautions for user

ADR not applicable
RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

$15.1.\ Safety, health\ and\ environmental\ regulations/legislation\ specific\ for\ the\ substance\ or\ mixture$

VOC content (2010/75/EC)

< 3 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):

Xi - Irritant



Risk phrases:

R43 May cause sensitisation by skin contact.

Safety phrases:

S24 Avoid contact with skin.

S37 Wear suitable gloves.

Contains

3,3'-Oxybis(ethyleneoxy)bis(propylamine)

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.